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16 March 1964

MEMORANDUM FOR THE RECORD SUBJECT: Trip for Monitoring Stereo Point Transfer Device, High Precision Viewer and Stereo Chip Comparator	25X1
1. Stereo Point Transfer Device - Accuracy. Question the pointing accuracy (repeatability) in the comparator mode. Pointing error will be approximately the same as the accuracy 250 + .005% of the distance. will prepare a comprehensive statement of pointing error potential, accuracy and test procedures.	
2. Vacuum Hold-Down. New Max-Levy glass with microgrooves having polished edges shows definite promise for practically invisible grooves. Good layout complete. No other progress. 3. Controls. engineers reported that the joystick types requested by us would cost in small quantities. In addition, the may be practical and economic limitation to the degree of control request on the joystick. agreed with the right hand joystick, left hand auxiliary control concept. They were advised of users' reservations at having extensive control in joystick. They will continue to analyze problem and prepare a recommended layout in the near future.	ed OFV4
4. Eye Station Module. proposed a boom type support like that on an overhead supported radial saw. Assembly would not rotate. Oculars would. Vertical displacement would probably be motor controlled. Monitor agreed that this appeared to be satisfactory.	
5. High Intensity Illumination.	
a. Contractor again warned of color temperature specification (3400°K min). Dimming must not be accomplished through lowering color temperature to objectionable level reported that the chosen lamp had a normal operating color temperature of 3700°K and that it could be dimmed to 10% without going 3000°K. The monitor agreed that such performance would be acceptable.	r 25X1
b. The problem of adequate brightness at all magnifications was discussed again was discouraged with the low magnification problem. He requested elimination of the low magnification objective. Further discussion revealed that the magnification obmay alleviate the problem will investigate. The contramonitor stated that 400 foot lamberts is not adequate, but that all magnifications should have at least 1000 foot lamberts.	_ 25X1

Declass Review by NIMA / DoD

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6. Laser Marking. Sample marks requested on the last visit were not prepared - this was due to laser power supply failure. is ob- 25% taining newer models for operational systems. They should be able to continue this study within a week.	< 1
7. Stereo Chip Comparator. This device was viewed in almost completely assembled form. The structure and the cabinetry were impressive in appearance was very concerned over the fact that the objectives were not parfocal. The focusing system is only suitable for fine focus - it is not practical for the focal differences of the objectives (over 1 inch). It was noted that this is not a true stereo comparator and that there may be some objection to the manipulation required to maintain or recover stereo fusion when traversing between points. It was also noted that has no binocular monoscopic mode.	
8. Potential developments were discussed in the following areas:	
a. Contact Chip Printer.	
b. Two possible light tables.	
c. Image Intensifier Screen.	
d. Two auto-focus problems.	
e. Light Modulation Viewer.	
9.	< 1
This company was suggested as a possible producer 25%	K 1
who confirmed that the medium. I spoke 25)	< 1
however, since the material is under goowrite and the learned,	K 1
the name of the contracting agency and monitor -	•
25)	v 1
I will attempt to obtain clearance for viewing this material.	X I
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